

WELDING TECHNOLOGY DIPLOMA (D50420)

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

COURSE & HOUR REQUIREMENTS

Course Number & Name	Class Hours	Lab Hours	Credit Hours
FALL SEMESTER			
ACA 111 College Student Success OR ACA 122 Transfer & Career Success	0/1	0/2	1
WLD 110 Cutting Processes	1	3	2
WLD 115 SMAW (Stick) Plate	2	9	5
WLD 121 GMAW (MIG) FCAW/Plate	2	6	4
Total	5/6	18/20	12
SPRING SEMESTER			
ISC 112 Industrial Safety	2	0	2
**Math	2/3	2	3/4
WLD 116 SMAW (Stick) Plate/Pipe	1	9	4
WLD 131 GTAW (TIG) Plate	2	6	4
Total	7/8	17	13/14
SUMMER SEMESTER			
*ENG 101 Applied Communications I OR *ENG 111 Writing and Inquiry	3	0	3
WLD 132 GTAW (Tig) Plate/Pipe	1	6	3
WLD 141 Symbols & Specifications	2	2	3
WLD 262 Inspection & Testing	2	2	3
Total	8	10	12
TOTAL SEMESTER CREDIT HOURS FOR DIPLOMA			37/38

*This course is a component of the general education requirements needed for graduation.

WELDING TECHNOLOGY DEGREE REQUIREMENTS

Course Number & Name	Class Hours	Lab Hours	Credit Hours
**MATH ELECTIVE <i>Select one course from the following:</i>			
MAT 110 Mathematical Measurement & Lit.	2	2	3
MAT 121 Algebra/Trigonometry I	2	2	3
MAT 143 Quantitative Literacy	2	2	3
MAT 152 Statistical Methods I	3	2	4
MAT 171 Precalculus Algebra	3	2	4

BASIC CERTIFICATE (C50420B)

COURSE & HOUR REQUIREMENTS

Class Title	Class Hours	Lab Hours	Credit Hours
ISC 112 Industrial Safety	2	0	2
WLD 110 Cutting Processes	1	3	2
WLD 115 SMAW (Stick) Plate	2	9	5
WLD 121 GMAW (MIG) FCAW/Plate	2	6	4
TOTAL SEMESTER CREDIT HOURS FOR CERTIFICATE	7	18	13

ADVANCED CERTIFICATE (C50420A)

COURSE & HOUR REQUIREMENTS

Class Title	Class Hours	Lab Hours	Credit Hours
WLD 116 SMAW (Stick) Plate/Pipe	1	9	4
WLD 131 GTAW (TIG) Plate	2	6	4
WLD 141 Symbols & Specifications	2	2	3
WLD 262 Inspection & Testing	2	2	3
TOTAL SEMESTER CREDIT HOURS FOR CERTIFICATE	8	19	14